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### 1 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research CASCON '97****Publisher:** IBM PressFull text available: pdf(4.21 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

### 2 [From service configuration through performance monitoring to fault detection: implementing an integrated and automated network maintenance platform for enhancing wide area transaction access services](#)

Symeon Papavassiliou, Mike Pace

September 2000 **International Journal of Network Management**, Volume 10 Issue 5**Publisher:** John Wiley & Sons, Inc.Full text available: pdf(961.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The design and implementation of integrated and automated network-service management platforms that can seamlessly configure services, monitor service-network performance, and detect network faults are of great importance and interest to the service and network providers. In this paper we describe a set of integrated Operations Support Systems &par;OSS&par; that implement proactive network maintenance process in Wide Area Transaction Access Services. Copyright © 2000 John ...

### 3 [A performance evaluation of a novel energy-aware data-centric routing algorithm in wireless sensor networks](#)

Azzedine Boukerche, Xuzhen Cheng, Joseph Linus

September 2005 **Wireless Networks**, Volume 11 Issue 5**Publisher:** Kluwer Academic PublishersFull text available: pdf(956.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we present a novel Energy-Aware Data-Centric Routing algorithm for

wireless sensor networks, which we refer to as EAD. We discuss the algorithm and its implementation, and report on the performance results of several workloads using the network simulator ns-2. EAD represents an efficient energy-aware distributed protocol to build a rooted broadcast tree with many leaves, and facilitate the data-centric routing in wireless micro sensor networks. The idea is to turn off the radios o ...

**Keywords:** data-centric routing, in-network processing, spanning tree with maximum leaves, wireless sensor network

#### 4 Testing and debugging: Using Hy<sup>+</sup> for network management and distributed debugging

Mariano P. Consens, Masum Z. Hasan, Alberto O. Mendelzon

October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: software engineering - Volume 1 CASCON '93**

**Publisher:** IBM Press

Full text available:  pdf(1.68 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

A network manager managing a computer network or a programmer attempting to understand and debug a distributed program both must deal with large volumes of data. Visualization is widely believed to help in these and similar tasks. We contend that visualization is indeed useful, but only if accompanied of the following facilities: abstraction, filtering, and layout control. The Hy<sup>+</sup> visualization system and GraphLog query language provide these facilities. They support not ...

#### 5 VizSEC innovative visualizations session: CyberSeer: 3D audio-visual immersion for network security and management

Christos Papadopoulos, Chris Kyriakakis, Alexander Sawchuk, Xinming He

October 2004 **Proceedings of the 2004 ACM workshop on Visualization and data mining for computer security VizSEC/DMSEC '04**

**Publisher:** ACM Press

Full text available:  pdf(439.86 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Large complex networks have become an inseparable part of modern society. However, very little has been done to develop tools to manage and ensure the security of such networks. Network operators continue to slave over endless daily logs and alerts in a struggle to keep networks operational. Perhaps the most formidable enemy of network operations today is the volume of management data that must be perused. Expensive commercial products attempt to visualize data but with limited utility, as wi ...

**Keywords:** monitoring, network security, network visualization

#### 6 Power reduction techniques for microprocessor systems

Vasanth Venkatachalam, Michael Franz

September 2005 **ACM Computing Surveys (CSUR)**, Volume 37 Issue 3

**Publisher:** ACM Press

Full text available:  pdf(602.33 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Power consumption is a major factor that limits the performance of computers. We survey the "state of the art" in techniques that reduce the total power consumed by a microprocessor system over time. These techniques are applied at various levels ranging from circuits to architectures, architectures to system software, and system software to applications. They also include holistic approaches that will become more important over the next decade. We conclude that power management is a ...

**Keywords:** Energy dissipation, power reduction

7 Response time and display rate in human performance with computers



Ben Shneiderman

September 1984 **ACM Computing Surveys (CSUR)**, Volume 16 Issue 3

**Publisher:** ACM Press

Full text available: pdf(1.88 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

8 Seeing, hearing, and touching: putting it all together



Brian Fisher, Sidney Fels, Karon MacLean, Tamara Munzner, Ronald Rensink

August 2004 **ACM SIGGRAPH 2004 Course Notes SIGGRAPH '04**

**Publisher:** ACM Press

Full text available: pdf(20.64 MB) Additional Information: [full citation](#)

9 Managing battery lifetime with energy-aware adaptation



Jason Flinn, M. Satyanarayanan

May 2004 **ACM Transactions on Computer Systems (TOCS)**, Volume 22 Issue 2

**Publisher:** ACM Press

Full text available: pdf(1.61 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We demonstrate that a collaborative relationship between the operating system and applications can be used to meet user-specified goals for battery duration. We first describe a novel profiling-based approach for accurately measuring application and system energy consumption. We then show how applications can dynamically modify their behavior to conserve energy. We extend the Linux operating system to yield battery lifetimes of user-specified duration. By monitoring energy supply and demand and ...

**Keywords:** Power management, adaptation

10 Link and channel measurement: A simple mechanism for capturing and replaying wireless channels



Glenn Judd, Peter Steenkiste

August 2005 **Proceeding of the 2005 ACM SIGCOMM workshop on Experimental approaches to wireless network design and analysis E-WIND '05**

**Publisher:** ACM Press

Full text available: pdf(6.06 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Physical layer wireless network emulation has the potential to be a powerful experimental tool. An important challenge in physical emulation, and traditional simulation, is to accurately model the wireless channel. In this paper we examine the possibility of using on-card signal strength measurements to capture wireless channel traces. A key advantage of this approach is the simplicity and ubiquity with which these measurements can be obtained since virtually all wireless devices provide the req ...

**Keywords:** channel capture, emulation, wireless

11 Information fusion for wireless sensor networks: Methods, models, and classifications



Eduardo F. Nakamura, Antonio A. F. Loureiro, Alejandro C. Frery



September 2007 **ACM Computing Surveys (CSUR)**, Volume 39 Issue 3

**Publisher:** ACM Press

Full text available: pdf(1.20 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Wireless sensor networks produce a large amount of data that needs to be processed, delivered, and assessed according to the application objectives. The way these data are manipulated by the sensor nodes is a fundamental issue. Information fusion arises as a response to process data gathered by sensor nodes and benefits from their processing capability. By exploiting the synergy among the available data, information fusion techniques can reduce the amount of data traffic, filter noisy measure ...

**Keywords:** Information fusion, architectures and models, data aggregation, data fusion, wireless sensor networks

## 12 Applications and localization: Underground structure monitoring with wireless sensor networks



Mo Li, Yunhao Liu

April 2007 **Proceedings of the 6th international conference on Information processing in sensor networks IPSN '07**

**Publisher:** ACM Press

Full text available: pdf(1.88 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Environment monitoring in coal mines is an important application of wireless sensor networks (WSNs) that has commercial potential. We discuss the design of a Structure-Aware Self-Adaptive WSN system, SASA. By regulating the mesh sensor network deployment and formulating a collaborative mechanism based on a regular beacon strategy, SASA is able to rapidly detect structure variations caused by underground collapses. A prototype is deployed with 27 Mica2 motes. We present our implementation expe ...

**Keywords:** coal mine, structure monitoring, underground, wireless sensor networks

## 13 Techniques and tools for analyzing intrusion alerts



Peng Ning, Yun Cui, Douglas S. Reeves, Dingbang Xu

May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 2

**Publisher:** ACM Press

Full text available: pdf(1.55 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Traditional intrusion detection systems (IDSs) focus on low-level attacks or anomalies, and raise alerts independently, though there may be logical connections between them. In situations where there are intensive attacks, not only will actual alerts be mixed with false alerts, but the amount of alerts will also become unmanageable. As a result, it is difficult for human users or intrusion response systems to understand the alerts and take appropriate actions. This paper presents a sequence of t ...

**Keywords:** Intrusion detection, alert correlation, security management

## 14 Tool papers: An intelligent, interactive tool for exploration and visualization of time-oriented security data



Asaf Shabtai, Denis Klimov, Yuval Shahr, Yuval Elovici

November 2006 **Proceedings of the 3rd international workshop on Visualization for computer security VizSEC '06**

**Publisher:** ACM Press

Full text available:  pdf(755.14 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The detection of known and unknown attacks usually requires the interpretation and presentation of very large amounts of time-oriented security data. Using regular means for displaying the data, such as text or tables, is often ineffective. Furthermore, displaying only raw data is not sufficient, because the security expert is still required to derive meaningful conclusions from large amounts of data. In addition, in many cases (e.g., for detecting a virus spreading in the network), an aggregate ...

**Keywords:** human-computer interaction, intelligent visualization, knowledge-based systems, security, temporal-abstraction

### 15 Selected writings on computing: a personal perspective

Edsger W. Dijkstra  
January 1982 Book

**Publisher:** Springer-Verlag New York, Inc.

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

Since the summer of 1973, when I became a Burroughs Research Fellow, my life has been very different from what it had been before. The daily routine changed: instead of going to the University each day, where I used to spend most of my time in the company of others, I now went there only one day a week and was most of the time that is, when not travelling!-- alone in my study. In my solitude, mail and the written word in general became more and more important. The circumstance that my employe ...

### 16 Applications: LUSTER: wireless sensor network for environmental research

L. Selavo, A. Wood, Q. Cao, T. Sookoor, H. Liu, A. Srinivasan, Y. Wu, W. Kang, J. Stankovic, D. Young, J. Porter

November 2007 **Proceedings of the 5th international conference on Embedded networked sensor systems SenSys '07**

**Publisher:** ACM

Full text available:  pdf(668.35 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Environmental wireless sensor network (EWSN) systems are deployed in potentially harsh and remote environments where inevitable node and communication failures must be tolerated. LUSTER---Light Under Shrub Thicket for Environmental Research---is a system that meets the challenges of EWSNs using a hierarchical architecture that includes distributed reliable storage, delay-tolerant networking, and deployment time validation techniques.

In LUSTER, a fleet of sensors coordinate communicati ...

**Keywords:** LiteTDMA, architecture, environmental science, implementation, mote, network protocol, storage, validation, wireless sensor network

### 17 Improving interactive performance using TIPME



Yasuhiro Endo, Margo Seltzer

June 2000 **ACM SIGMETRICS Performance Evaluation Review , Proceedings of the 2000 ACM SIGMETRICS international conference on Measurement and modeling of computer systems SIGMETRICS '00**, Volume 28 Issue 1

**Publisher:** ACM Press

Full text available:  pdf(1.05 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

On the vast majority of today's computers, the dominant form of computation is GUI-

based user interaction. In such an environment, the user's perception is the final arbiter of performance. Human-factors research shows that a user's perception of performance is affected by unexpectedly long delays. However, most performance-tuning techniques currently rely on throughput-sensitive benchmarks. While these techniques improve the average performance of the system, they do little ...

**Keywords:** interactive performance, monitoring

# 18 Algebra-based scalable overlay network monitoring: algorithms, evaluation, and applications

Yan Chen, David Bindel, Han Hee Song, Randy H. Katz

October 2007 **IEEE/ACM Transactions on Networking (TON)**, Volume 15 Issue 5

**Publisher:** IEEE Press

Full text available:  pdf(1.30 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Overlay network monitoring enables distributed Internet applications to detect and recover from path outages and periods of degraded performance within seconds. For an overlay network with  $n$  end hosts, existing systems either require  $O(n^2)$  measurements, and thus lack scalability, or can only estimate the latency but not congestion or failures. Our earlier extended abstract [Y. Chen, D. Bindel, and R. H. Katz, "Tomography-based overlay network monitoring," Proc ...

**Keywords:** dynamics, load balancing, network measurement and monitoring, numerical linear algebra, overlay, scalability

# 19 Aurora: a new model and architecture for data stream management

Daniel J. Abadi, Don Carney, Ugur Çetintemel, Mitch Cherniack, Christian Convey, Sangdon Lee, Michael Stonebraker, Nesime Tatbul, Stan Zdonik

August 2003 **The VLDB Journal — The International Journal on Very Large Data**

**Bases**, Volume 12 Issue 2

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  pdf(585.97 KB) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

Abstract. This paper describes the basic processing model and architecture of Aurora, a new system to manage data streams for monitoring applications. Monitoring applications differ substantially from conventional business data processing. The fact that a software system must process and react to continual inputs from many sources (e.g., sensors) rather than from human operators requires one to rethink the fundamental architecture of a DBMS for this application area. In this paper, we present Aur ...


**Keywords:** Continuous queries, Data stream management, Database triggers, Quality-of-service, Real-time systems

# 20 Performance analysis of mobile agents for filtering data streams on wireless networks

David Kotz, George Cybenko, Robert S. Gray, Guofei Jiang, Ronald A. Peterson, Martin O. Hofmann, Daria A. Chacón, Kenneth R. Whitebread, James Hendler

April 2002 **Mobile Networks and Applications**, Volume 7 Issue 2

**Publisher:** Kluwer Academic Publishers

Full text available:  pdf(267.15 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Wireless networks are an ideal environment for mobile agents, since their mobility allows them to move across an unreliable link to reside on a wired host, next to or closer to the resources that they need to use. Furthermore, client-specific data transformations can be

moved across the wireless link and run on a wired gateway server, reducing bandwidth demands. In this paper we examine the tradeoffs faced when deciding whether to use mobile agents in a data-filtering application where numerous ...

**Keywords:** RPC, information filtering, mobile agent, mobile code, performance analysis, wireless network

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NETWORK MONITORING DISPLAY ALERT

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### Network Monitoring Tools

Metrica **Network Performance** Reporting (NPR) is a **performance monitoring** ..... (Round Robin Database tool) is a system to store and **display time-series** data. ...  
[www.slac.stanford.edu/xorg/nmtf/nmtf-tools.html](http://www.slac.stanford.edu/xorg/nmtf/nmtf-tools.html) - 187k - [Cached](#) - [Similar pages](#)

### Windows 2003 Performance Monitor

The **performance monitor**, or system **monitor**, is a utility used to track a range of processes and give a real **time** graphical **display** of the results, ...  
[www.windowsnetworking.com/articles\\_tutorials/Windows\\_2003\\_Performance\\_Monitor.html](http://www.windowsnetworking.com/articles_tutorials/Windows_2003_Performance_Monitor.html) - 36k - [Cached](#) - [Similar pages](#)

### Windows NT: Monitoring Performance

On a Windows NT **network**, use **Performance Monitor** to track server **performance** and to ..... (The selected graph-**time interval** is reflected in the value bar, ...  
[www.microsoft.com/technet/archive/winntas/proddocs/concept/xcp08.mspx](http://www.microsoft.com/technet/archive/winntas/proddocs/concept/xcp08.mspx) - 82k - [Cached](#) - [Similar pages](#)

### Network Monitoring Tools - freeware - shareware - software - ping ...

The **time interval** was set to 1 minute as not to flood the hops or endpoint with ... NT Services and **performance** counters and includes Network **monitoring**. ...  
[www.netmon.org/tools.htm](http://www.netmon.org/tools.htm) - 17k - [Cached](#) - [Similar pages](#)

### Network Server Monitor

For instance, as a **network** administrator, you want an **alert** if there's a McAfee or .... NTP **Time Server** check ActiveXperts **Network Monitor** uses NTP to check ...  
[www.activexperts.com/activmonitor/](http://www.activexperts.com/activmonitor/) - 68k - [Cached](#) - [Similar pages](#)

### NLANR/DAST : Network Performance Measurement Tools

Will trace continuously with any **interval** and can **alert** via e-mail if desired. Can **display** data over a period of **time** for trending information. ...  
[dast.nlanr.net/NPMT/](http://dast.nlanr.net/NPMT/) - 35k - [Cached](#) - [Similar pages](#)

### Freeware Download: Network Monitoring

It provides graphs and reports that **display performance** and availability data .... FinitySoft **Network Monitor** displays all kind of information in real **time** ...  
[www.dirfile.com/freeware/network-monitoring.htm](http://www.dirfile.com/freeware/network-monitoring.htm) - 83k - [Cached](#) - [Similar pages](#)

### SNMP and e-mail Resources on TechRepublic

**Network Eagle Monitor** can ping server, **monitor** TCP port, check HTTP URL (with HTTP ... and periodically ping each device at a user-specified **time interval**. ...  
[search.techrepublic.com.com/search/SNMP+and+e-mail.html](http://search.techrepublic.com.com/search/SNMP+and+e-mail.html) - 67k - [Cached](#) - [Similar pages](#)

### Journal of Network and Computer Applications : Real-time network ...

To evaluate the **performance** of the proposed real-**time monitoring** method, .... **time interval** from the monitored **network** elements because it varies with **time** ...  
[linkinghub.elsevier.com/retrieve/pii/S1084804505000330](http://linkinghub.elsevier.com/retrieve/pii/S1084804505000330) - [Similar pages](#)

[PPT] [www.cse.ohio-state.edu/~luom/788/Network%20monitor...](http://www.cse.ohio-state.edu/~luom/788/Network%20monitor...)

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Availability: The percentage of a specified **time interval** during which the system was ...

Mainly used to **monitor network performance**. Passive **Monitoring** ...

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